5/5/06 Levenil

Municipality/Organization: Town of Amherst, NH

EPA NPDES Permit Number: NHR100000

MaDEP Transmittal Number:

Annual Report Number

& Reporting Period: No. 4: March 03-May 06

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Bruce W. Berry

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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Printed Name: Gary MacGuire

Title: Town Administrator

Date: 5-1-06

Part II. Self-Assessment

- II, (a) 2004 The Town of Amherst has had a slow start addressing the requirements of Storm Water II. The first initial year was spent attending meet handle understanding the complete process. We are committed to these requirements and regulations and I was delighted to find during the revi engineers that information posted in the Public Works section of the town webpage unintentionally included educational information addressing long ways to go and we will stay the course. Limited volunteerism, and resources may require us to rethink our strategies, but the timetable sub is doable. We anticipate a local cable channel to be up and running by summer of 2004. This will become a valuable resource for spreading the
 - 2005- Very active Stormwater II committee meets monthly. Our chairperson has posted many Stormwater II links to the town web page.
 - 2006- Committee chairperson has authored a number of articles for our local newspaper covering such topics as the sins of vehicle washing, o
- II, (b) Best Management Practices are under review by our Planning Board. More time is required to determine appropriate necessary actions and area departments.
 - 2004 In house improvements on town winter maintenance equipment such as groundspeed controls, liquid calcium systems (that lower the mousing less product), ground and air temperature sensing equipment mounted on vehicles, all for more appropriate winter maintenance with a gowinter maintenance products.
 - 2005 We continue to educate our Planning board on the necessity to formulate rules and regulations. Public Works is in its second year using mash of alcohol distilleries. The voters authorized purchase of a second liquid deicing system for the 05-06 budget cycle.
 - 2006 In conjunction with school and civic groups the town has assisted in roadside cleanups. Voters approved a salt/sand storage facility who minimize residue runoff. We continue our annual street sweeping and catch basin cleaning. DPW inspects erosion control systems for new pub construction. The Town of Amherst employs two licensed pesticide supervisors in different departments overseeing fertilizer and pesticide con school districts. We are assisted with soil analysis at the University of New Hampshire. Amherst voters supported Phase II of the Baboosic Lak many as twenty additional users to the eleven already on the system. Interns completed mapping outfalls and receiving waters. Follow-up will t dry weather screening.

- II, (c) Achieving our first year goals, became more challenging while trying to understand the process. This will impact our five year plan and necessi Planning Board, Master Plan revision is underway with a goal of adopting it after hearings in 2007. The town is going through a reevaluation of Department with a goal of increase time towards Code Enforcement with sites on site plan compliance and review and support Stormwater Pha
 - 2005 The process of developing and implementing rules and regulations covering pre and post construction activities are going a little slower The Stormwater II Committee has made this their number one priority for the upcoming year.
 - 2006 Stormwater II ordinance is going through legal review. During review, new construction plans are looked at for the following informatic Plan, Site Specific Plan, Stormwater Pollution Prevention Plan, and Notice of Intent filing. They are returned if the information is not included. by the Planning Board (with plan notations) enforcement becomes easier.
- II, (d) We continue to collect data on our catch basins during annual cleaning. Illicit connections will be sought and properly documented during the o the position of culverts and catch basins.
 - 2005 Plans are to hire a summer intern dedicated to documentation of culverts, catch basins, and outfalls.
 - 2006 As discussed in II-b above, two summer interns mapped culvert locations and flow directions. This year we will follow up with dry wea discharges etc.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activities – Progress on Goals Permit Year 3
1.1	Education signage at voting	Public Works	4'X4" information poster display for town voting.		Broader base of assistance	Two years of posting similar information yielded minimal interest. The committee plans to
Revised	Education booth at 4 th of July festivities	Stormwater II committee	Brochures			readjust our approach by utilizing other group settings
1.2	Information posting on town web page	Public Works Director	Develop and update progress on town managed road construction projects	Actual posting of information on the town webpage completed by outside source.	Update with new and additional information. Investigate and implement, dedicated page on town	Continued research by our Stormwater Committee Chairperson to our web designer has generated quite a few links
Revised	Update as time allows	2005- Stormwater II Committee	Electronic exposure through education		website to stormwater	
1.3	General Education Brochure	Public Works & Education Committee	Develop and distribute to residents in 04-05	This is in progress now, the committee is working through a lot of information, and brochures	Handout brochures initially	Some brochures built out of reprints from news articles written about drinking water and
Revised				will be developed and disbursed.		Stormwater runoff related issues earth day, voting, events on the town common
1.4	Disburse Information to local contractors	Public Works Director and Land Use Manager	Educate private contractors in the importance of compliance	Verbal education at this point with compliance built into site plan review and follow-up with on site inspections.	Development and printing of formal education brochure designed for contractors with issuance at initial inquiry	Still working on development of brochure for contractors
Revised				_	meeting.	
1.5	Coordinate information and program distribution within school network	Public Works Director, Conservation Commission	Develop curriculum to educate students. Fall / winter 04-05	Integrate into program currently presented to grammar school students on solid waste.	Begin to develop curriculum to be used to educate students.	Excellent volunteer program in place centered around earth day. First grade- awareness of reusable
Revised						2nd Grade- the rotten truth about landfills. 3 rd Grade, renewable and non-renewable resources.

1a. Additions

1.6	Transfer Station waste stream management	Public Works Director and Solid Waste Committee	Improve facility and educate taxpayers		Household Hazardous Waste information is posted on the town web page and the Solid Waste Committee is working towards streamlining the facility
1.7	Series of articles written for Amherst Citizen. After being published the articles are posted on the town website	Committee Chair	Educate residents	April 13, 2004 Earth Day Articles June 8 th Lawn Pesticides and Water Pollution July 27 th Buying an Using Pesticides, Read the Fine Print Sept 14 Reduce Lawn Fertilizer Use	January 11 th Safe Winter Driving on Limited Salt Use Roads Jan 14 th Brush Up on your Winter Driving Skills. Feb 8 th Article on commercial car wash verses washing in the yard.

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activities - Progress Goals Permit Year 3
2.1	Stormwater Advisory Committee	Public Works Director and Road commissioners	Review and recommend improvements to SWMP	We are reviewing the initial report and are working on recommended improvements.	Submit recommended improvements to Conservation Commission and Planning Board for	Stormwater committee meets me has started identifying areas of responsibility, will oversee activ summer intern.
Revised 10/04		Representation from private sector and several town boards			comments and feedback. Review, revise, and implement	
2.2	Removal of potential septic hazards from Baboosic Lake	Town Administrator and Health Department	Move failed septic systems from selected summer homes to community septic system	Approval by town after public hearings, approval of additional outside funding, in the process of the bidding stage, anticipate implementation this year.	Measure improvements to water quality, and seek expansion of program.	With the cooperation of New Hampshire Department Environ Services the main leaching field place. Force mains for 12 individuals will be completed by fall 2005. State DES approval for 12
Revised			Bid out in 04 implement by 05			additional homes in the next pha Construction anticipated next ye
2.3 Revised	Catch Basin Stenciling	Public Works	Stencil priority by August of 04	The town maintains under 350 catch basins. During our annual cleaning in July, DPW staff will mark as each is cleaned	Monitor and re-stencil with public service announcement in local paper	Markings are done annually in the spring/early summer during cate basin cleaning
2.4	HHW Collection Events	Public Works Director and Nashua Regional Planning Commission	Better participation	Currently, there are five sponsored regional collection events. The Amherst Solid	Continue to track participation of the regional event and work towards a	Amherst continues to be involve regional collection. The approve designated collection site is in N
Revised				Waste Committee is reviewing this program and investigating a local collection event.	more local collection.	A local regional site failed as sta funding was cut. We will continu pursue funding.
2.5	Education Committee	Public Works Director and Solid Waste task force committee	Booth at major events on the town common	An information booth manned by volunteers during events such as Forth of July	Consider comments received at public events and expand available information.	Education is on-going in the elementary schools, the Transfer Station, and on the web. Prepara for an information booth at 4 th or activities. As the town moves to a community access channel whi should be up and running by this

Revised	[,	This process now	Information			
	i	includes the Stormwater	posted at SP-2			
		II Committee	voting in March			
L			04			

2a. Additions

2.6	Roadside Cleanup in conjunction with Earth Day	Beth Woodbury Environmental Teacher at Souhegan High School and Public Works	Remove trash and floatables from shoulders of town roads		This is cooperative effort to rem trash from the roadside using st and public works employees. The become semi-annual.

3. Illicit Discharge Detection and Elimination

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activities – Progress Goals Permit Year 3
3.1	Identify and map outfalls and receiving waters	Public Works & Pennichuck Water Works	Map all outfalls using a footage measuring devise and transpose onto map. Review information supplied by Pennichuck	All culverts and catch basins were marked with reflectors and delineator posts during fall 03. Additional DPW summer staff will start recording footage and relevant information and transpose it into	Continue measuring and mapping program	In cooperation with University of Hampshire one or two interns will computer and mapping skills sho on board by end of May.
Revised			Actual stenciling has not started yet, we plan it to start in summer 04	data base and onto town tax map.		
3.2 Revised	Dry weather screening of outfalls for illicit connections	Public Works	Screen all outfalls by Fall of 06	Continue field screening of outfalls concurrent with footage mapping by summer staff	Continue field screening of outfalls with measuring and mapping investigate any inappropriate findings for	Continue screening, outfall and i connection training is scheduled Public Works employees this spr
	Y11' '				follow-up.	
3.3	Illicit connection information	Planning Board	Bring information to the attention of Planning Board	Partner with the Amherst Planning Board with documented illicit connection discharges to formulate ordinance	Follow through with necessary ordinance to 05 town meeting approval.	Stormwater committee is still wo on ordinance information for presentation to Planning Board

4. Construction Site Stormwater Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activities – Progress Goals Permit Year 3
4.1	Construction Storm Water Pollution Prevention Plan	Planning Board & Public Works Director	Complete review of existing construction site runoff control	Public Works has set the example by implementing a Stormwater runoff control program for its own work.	Review existing rules and regulations, make necessary adjustments to existing	Public Works offers input to Plandministrator after reviewing construction plans on the need
Revised					documents for establishing water quality benchmarks, site inspection procedures, etc	Storm water pollution preventic plans.
4.2	Site plan review	Public Works Director, Planning Board, & Land use Manager	Take the process now in place (site plan review meeting) and put actions on paper	Create an interim policy from the site plan regulations that exist today.	Continue with interim policy and update as necessary	Department Heads meet monthl Zoning Administrator to review plans to be included in Planning Board hearings.
Revised						
Revised						

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activities – Progres Goals Permit Year 3
5.1 Revised	Stormwater rules and regulations for sites over 43,560 square feet	Public Works, Engineering, Planning Board	Complete review of existing MS4 maintenance procedures. Complete formal procedures manual for conducting MS4 maintenance, include record keeping forms, best management practices, etc. We have started slowly, this looks more like an 04-05 goal	Start the review process with recommendations from public works and planning. Begin drafting rules and regulations to regulate post construction Stormwater management and illicit discharges.	Draft new rules and regulations for review and initiate the process for implementation.	This is a priority of the Stormy Committee. A meeting is sched between Stormwater Committe Board of Selectmen with Plann Board Representation, and Toy Counsel.
Revised	Incorporate Best Management Practices into Town regulation Plan	Public Works Director, Planning Board, Town Counsel & Board of Selectmen	Complete update of Town's regulations to include Best Management Practices.	Review existing Master Plan and draft recommended changes	Bring before the authority having jurisdiction for approval and implementation.	The Amherst Stormwater Comis working on rules to be included the town regulations. Looking at adopting NHDES be management guidance document
Revised						
Kevised						

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activities – Progress Goals Permit Year 3
6.1	Document and Enhance Employee Training Procedures	Public Works Director	Complete review of existing programs and update of formal employee training manual	All employees are actively involved in UNH T-2 and Public Works Academy training. Department SOP's partially completed, plan to	Continue existing training programs and integrate new training and techniques to	The Town of Amherst Departm Public Works hired CLD Engin of Manchester, NH to put on a
Revised			onspie yee daming mandar	have first draft available for review by June 2004. SWMP in draft stage, train staff on content by July 04	include SWMP and pollution prevention practices.	training class for highway empl
6.2 Revised	Evaluate the use of Pesticides, sand, and salt	Director of Public Works	Complete review of existing procedures. Write formal procedures manual for handling and using pesticides, sand, and salt	One employee is certified as pesticide supervisor. Within the last three years, we have integrated new technology to minimize the impact of salt and sand on roads.	Complete the learning process of calibrating winter salt and sand equipment. Purchase of two replacement vehicles with ground	Municipal parks and grounds, including cemeteries are tested minimize spreading unnecessar amounts of fertilizers and pestic At March voting, taxpayers autl purchase of second environmen
6.3	Catch basin cleaning	Director of Public Works	Clean every catch basin at least once a year	This practice started three summers ago, each and every catch basin is	speed controls. Continue with this program	Friendly liquid deicer. Each catch basin is cleaned one year. Catch basins are monitore
Revised				cleaned yearly or more frequently if needed.	1 76	additional cleaning happens whif warranted.
6.4 Revised	Street sweeping	Director of Public Works	Sweep winter debris from the streets	Existing policies account for approximately one quarter of the streets picked up each spring and the rest swept to the road edge and cleaned during a ten year ditching	Work towards budgeting additional monies to power pick- up sweep all town roads.	Street sweeping with pickup vac is an annual spring event. The b process has expanded to approximately one third of towr
Revised				plan	Todus.	year additional monies is added increase the equipment rental.

6a. Additions

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<ii>fapplicable>>

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activities – Progress Goals Permit Year 3
Revised						
Revised						
Revised						
Revised						
Revised						
Revised						

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

·	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activit — Progress on Goals Permit Year 3
Stormwater Management Position Created/staffed			
Annual program budget/ Expenditures	\$20,000	\$20,000 \$6,000	\$24,000 \$17,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	15 %		
Stormwater management committee established	Yes	Yes	Yes
Stream teams established or supported	No		supported
Shoreline clean-up participation or quantity of shoreline miles cleaned	No)		555PP 5256
Household Hazardous Waste Collection Days			
 days sponsored 	5 Regional	Regional	5
community participation	05%	05%	05%
 material collected 	tons or gal		3270
School curricula implemented	Grammar School	Grammar School	Grammar School

Legal/Regulatory

	In Place Prior to	Under	D 0 1	
Regulatory Mechanism Status (indicate with "X")	Phase II	Review	Drafted X	Adopted
Illicit Discharge Detection & Elimination		X		T
■ Erosion & Sediment Control		X		
Post-Development Stormwater Management		X		
Accompanying Regulation Status (indicate with "X")				1
 Illicit Discharge Detection & Elimination 		X		
■ Erosion & Sediment Control		X		
 Post-Development Stormwater Management 		X		

Mapping and Illicit Discharges

	Progress on Goal(s) Permit Year 1	Progress on Goals Permit Year 2	Progress on Goals Permit Year 3	Progress or Permit
Outfall mapping complete			Partial 8/05	T CI IIII
Estimated or actual number of outfalls				
System-Wide mapping complete	•		Partial 8/05	
Mapping method(s)			1 42024 0, 05	
Paper/Mylar			Paper	
■ CADD			2 0000	
■ GIS			yes	
Outfalls inspected/screened			3	
Illicit discharges identified				
Illicit connections removed				
% of population on sewer		0%	0.0023	0.00
% of population on septic systems	(100%)	100%	99.9977%	99.9

Construction

	2003	2004	2005
Number of construction starts (>1-acre)			Two
Estimated percentage of construction starts adequately regulated for erosion and sediment control	-		Two
Site inspections completed			Two
Tickets/Stop work orders issued			0
Fines collected			0
Complaints/concerns received from public			0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post- construction stormwater control	50%	
Site inspections completed	50%	Prese si NHL
Estimated volume of stormwater recharged		

Operations and Maintenance

	2003	2004	2005
Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	1time/yr	1time/yr	1time/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	1time/yr	1time/yr	1time/yr
Total number of structures cleaned	340	345	355
Storm drain cleaned	500 LF.		
Qty. of screenings/debris removed from storm sewer infrastructure	200 yards est.	220 yards est	240 yards est.
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		recycle	recycle
Cost of screenings disposal			

		T		
A roman francisco Catalana de	2003	2004	2005	<u> </u>
Average frequency of street sweeping (non-commercial/non-arterial streets)	1time/yr	1time/yr	1time/yr	
Average frequency of street sweeping (commercial/arterial or other critical streets)	1time/yr	1time/yr	1time/yr	
Qty. of sand/debris collected by sweeping	lbs. or tons			
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	location		Beneficial	
			usage	
Cost of sweepings disposal			\$8,000	
Vacuum street sweepers purchased/leased				Not g
Vacuum street sweepers specified in contracts		Outside hire	Outside hire	-
Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)				
■ Fertilizers			Tested for	,
·			proper usage	
Herbicides			Tested for	
			proper usage	
 Pesticides 			Tested for	<u> </u>
			proper usage	
Anti-/De-Icing products and ratios		50 % NaCl	50 % NaCl	
All paved roads are treated with a 50/50 mix. Half of our equipment has ground speed control	ols and nre-	10 % CaCl ₂	10 % CaCl ₂	
wetting tanks and one small truck is equipped with straight liquid deicing (50% mag chlorid	e 50% distillers	03 % MgCl ₂	03 % MgCl ₂	
brew) Ice-be-gone. All dirt roads are treated with one hundred percent ledge sand.	ic, 5070 distillers	% CMA	% CMA	
saw from the gold. The directors are areated with one numbered percent leage saile.		% Kac		
		% Kac % KCl	% Kac	
			% KCl	
Pre-wetting techniques utilized		50 % Sand	50 % San	<u> </u>
Manual control spreaders used		(yes)	Yes	
ivialidal control spicadels used		(yes)	Yes	

	2004	2005	
Automatic or Zero-velocity spreaders used	yes	Yes	
Estimated net reduction in typical year salt application	Unknown at this time	We are able to keep status quo in spite of increased traffic loads	We an spite (
Salt pile covered in storage shed	yes	yes	yes
Storage shed(s) in design or under construction	n/a		New a

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